



## **BLACK BURST, TONE & VIDEO/AUDIO DA MODEL PAV-880**



### **FEATURES**

- ◆ **6 Black Burst Outputs**
- ◆ **Tone Generator**
- ◆ **1 X 8 or two 1 X 4 Video**
- ◆ **1 X 8 Mono or 1 X 4 Stereo**

The PAV-880 provides the user with six precision black burst outputs for system distribution. Its stable internal timebase provides flawless output signals for black burst reference, factory adjusted to RS-170A standards. Black burst is provided on rear panel BNC connectors. In addition, a high quality 1 KHZ tone generator is provided for audio system testing. A rear panel terminal block allows for easy connection to the system. The balanced, low impedance output conforms to Audio Engineering Society (AES) standards for audio distribution.

The video DA section has high impedance loop through in the 1X8 mode of operation. In the dual 1X4 mode, the input is terminated internally. The dual mode of operation provides four outputs of each of the two inputs. A switch on the rear panel allows the unit to operate as a dual 1X4 DA with two terminated inputs with four outputs each amplifier section.

Two gain controls on the front panel adjust the video level to  $\pm 3\text{dB}$  for each set of four outputs. The video bandwidth is 20 MHZ, making it a very useful device for any application. A fuse on the front panel provides easy replacement.

The audio DA section has high impedance loop through. All connections for the inputs and outputs use positive captive screw clamp terminals blocks located on the rear panel. A switch on the front panel allows the unit to operate as a mono or stereo DA with one input and eight outputs mono or 2 X 4 stereo. Selecting the dual 1 X 4 mode is required for stereo operation with four outputs for each of the Left and Right channels. A Master Gain Control on the front panel adjust the audio gain to  $\pm 16\text{dB}$ . A gain trim control for each channel allows for independent level adjustment. A balanced match of each channel is easily obtained.

# MODEL PAV-880 BLACKBURST & A/V DA SPECIFICATIONS

## BLACK BURST OUTPUTS:

Number: ..... Six  
 Standard: ..... NTSC, RS-170A  
 Sync: ..... -40 IRE, 0.286Vpp  
 Pedestal: ..... 7.5 IRE, 0.054Vpp  
 Burst: ..... 40 IRE (0.286Vpp)  
 Connectors: ..... BNC  
 Impedance: ..... 75 Ohms +1%  
 Timebase Stability: ..... ±0.0005%  
 ..... -10 to +60° C at 14.318180MHz  
 Tilt & Overshoot: ..... <0.5%  
 Sync Rise Time: ..... 140nS ±20ns  
 Pedestal Rise Time: ..... 140nS ±20ns  
 Burst Envelope: ..... 350nS ±15ns  
 S/N Ratio: ..... >55db  
 Residual Subcarrier: ..... <2mV

## TONE OUTPUT:

Number: ..... One  
 Configuration: ..... Balanced, Low Impedance  
 Level: ..... 0dBm ±1 %  
 Frequency: ..... 1 kHz ±1 Hz  
 Connector: ..... Positive Capture Screw  
 Impedance: ..... 66Ω ±5%  
 THD: ..... Approx. 0.2%  
 S/N Ratio: ..... >80dB

## INPUT, VIDEO SECTION:

Video Level: ..... 1.0 Vpp ±3dB  
 Impedance:  
 1 X 8 Mode: ..... 100K ohms bridging  
 2 X 4 Mode: ..... 75Ω terminating  
 Maximum DC on Inputs: ..... 4V DC  
 Common Mode Range: ..... 8V p-p  
 CMRR:  
 60Hz: ..... >90dB  
 30KHz: ..... >70dB  
 1 MHz: ..... >45dB  
 Cross Talk: ..... >60dB

## OUTPUTS, VIDEO SECTION:

Number:  
 1X8: ..... 8  
 2 X 4: ..... 4 each DA  
 Level: ..... Unity gain ±3dB  
 Impedance: ..... 75Ω ±1% source terminated  
 Propagation Delay: ..... 12 nS  
 Differential Gain: ..... 0.15%  
 Differential Phase: ..... 0.12°

## OUTPUTS, VIDEO SECTION: continued

Frequency Response: ..... -3dB at .17Hz  
 ±0.1dB to 14MHz  
 -0.3dB at 16MHz  
 -3dB at 20MHz  
 Output Isolation: ..... >36dB at 3.58MHz  
 DC Offset ..... <2mV  
 Line Rate Tilt: ..... <0.1%  
 Field Rate Tilt: ..... <0.1%  
 RMS Hum, 20MHz Filtered: ..... >60dB  
 RMS Noise, 20MHz Filtered: ..... >60dB

## INPUT, AUDIO SECTION:

Maximum Level: ..... +50dBm  
 Impedance: ..... >10KΩ bridging  
 CMR Ratio: ..... -80dB at 60Hz  
 Maximum Common Mode Range: ..... ±10V

## OUTPUTS, AUDIO SECTION:

Number:  
 1 X8: ..... 8  
 2 X 4: ..... 4, each amplifier  
 Maximum Level: ..... +24dBm @150 ohms  
 ..... +26dBm @ 600 ohms  
 Impedance: ..... 44Ω  
 Frequency Response: ... ±0.1 dB, DC to 20 KHz  
 Isolation Between Outs: ... >70dB DC to 20KHz  
 Gain Range: ..... ±16dB  
 Signal To Noise: ..... >-90dB, unity gain  
 Total Harmonic Dist.(THD): ... <0.2% @ +17dBm  
 DC to 20KHz with max. loads, Max Gain  
 Inter-Mod. Dist.(IMD): ... 4:1 <0.02% @ +22dBm  
 ..... +10dB Gain  
 Cross Talk: ..... <65dB, 20 to 20KHz  
 DC Offset: ..... <50mV Phase To Phase

## ENVIRONMENTAL:

Temperature: ..... 0° to 50° C ambient  
 Humidity: ..... 10% to 90% non-condensing  
 Power: ..... 4 watts  
 AC Voltage: ..... 120/240VAC50/60 Hz

## MECHANICAL:

Height: ..... 1.75 inches  
 Width: ..... 19 Inches  
 Depth: ..... 11.5 Inches  
 Weight: ..... 4.5 Pounds



**PAV-880 REAR PANEL**